

C1 6591

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

COUNTY NUMBER 13

1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY DATE Received MM DD YY

DATE WELL COMPLETED MM DD YY 05 11 06

Depth of Well 22 200 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 10-95-0026

OWNER last name first name TOWN SUBDIVISION SECTION LOT

WELL LOG Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Top Soil, Sandy, Sand Stone, MICKA, Sand Stone, MICKA.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y/N) TYPE OF GROUTING MATERIAL (CEMENT, BENTONITE CLAY) NO. OF BAGS NO. OF POUNDS GALLONS OF WATER DEPTH OF GROUT SEAL

CASING RECORD

MAIN CASING TYPE (PL) Nominal diameter top (main) casing (6) Total depth of main casing (74)

OTHER CASING (if used) diameter inch depth (feet) from to

SCREEN RECORD

screen type or open hole (ST, BR, HO, PL, OT) diameter inch depth (feet) from to

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED (Y/N)

CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS LIC. NO. 1 M SD 117 DRILLERS SIGNATURE

LIC. NO. 1 D

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

C2 DEPTH (nearest ft.)

Table with columns: E A C H S R E E N, 1 2 3, DIAMETER OF SCREEN (56, 60) from to

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q

70 TELESCOPE CASING 72 LOG INDICATOR 74 75 76 OTHER DATA

C3

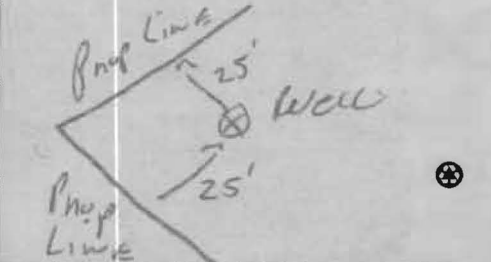
PUMPING TEST

HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 6 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 42 WHEN PUMPING 55 TYPE OF PUMP USED (for test) S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29 CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35 PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47 CASING HEIGHT (circle appropriate box and enter casing height) + above LAND SURFACE - below 2 (nearest foot)

LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)



B 1 8912

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 522472 please type

STATE PERMIT NUMBER HD-95-0026 fill in this form completely

Date Received (APA)

OWNER INFORMATION

J.T.S. Corp Owner First Name 8800 Centre Park Dr. Suite 209 Columbia MD. 21045

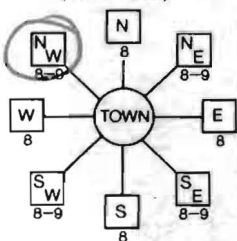
LOCATION OF WELL

Howard COUNTY Musgrove Farm SUBDIVISION SECTION 44 46 LOT 10 48 50 GLENELG NEAREST TOWN 2 MILES FROM TOWN

DRILLER INFORMATION

RAYH E MAYNE MS D17 Driller's Name License No. RAYH E. MAYNE INC Firm Name 17024 Handy Rd Mt Airy MD. 21201 Address Signature Date 5-14-05

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Musgrove Ct NEAR WHAT ROAD ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NORTH SOUTH 34 275 37 DISTANCE FROM ROAD ENTER FT OR MI 38 39 TAX MAP: 21 BLK: 12 PARCEL 12

WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) 5 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- Domestic Potable Supply & Residential Irrigation (circled) Farming (Livestock Watering & Agricultural Irrigation) Industrial, Commercial, Dewatering Public Water Supply Well Test, Observation, Monitoring Geo-Thermal

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard COUNTY NO. STATE SIGNATURE DATE ISSUED 6/2/05 CO SIGNATURE EXP. DATE 6/2/06 NORTH GRID 524 000 EAST GRID 798 000

APPROXIMATE DEPTH OF WELL 150 FEET

APPROXIMATE DIAMETER OF WELL 64 INCH NEAREST INCH

METHOD OF DRILLING (circle one)

- Bored (or Augered) Jetted Jetted & Driven AIR-ROTARY (circled) AIR-PERCussion ROTARY (Hydraulic Rotary) CABLE REVerse-ROTary Drive-POINT other

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

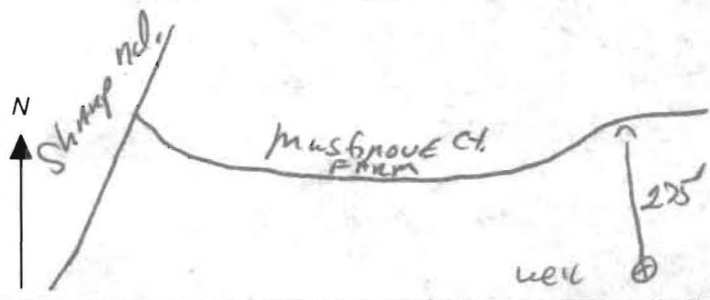
- This well will not replace an existing well (circled) This well will replace a well that will be abandoned and sealed This well will replace a well that will be used as a standby-contact local approving authority for policy on standby wells This well will deepen an existing well PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER 1. well 2. 3.

WRITE THE BOX NUMBER FROM THE MAP HERE 798 524

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION



Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROP. PERMIT NUMBER HD 2005 G 002 PERMIT No. HD-95-0026

SPECIAL CONDITIONS

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 45-0026
 Location of property (road) Masgrove Farm Ct
 Subdivision Masgrove Farm Lot 10 Block 12 Plat 21 Sec. 12
 Well Driller Ralph Mayne Owner J. T. S. Long

Depth of well 200
 Distance of measuring point (M.P.) above ground 2 ft
 Static water level (S.W.L.) below M.P. 42 ft

I. High rate pumping -- reservoir drawdown

Time pump started 8:00 Pumping rate 10 GPM
 Total time 15 min to reach pumping water level 55 ft. below M.P.

II. Recovery pump test data - observations to be recorded every 15 minutes

TIME (in 15 minute intervals)	WATER LEVEL below M.P.	PUMPING RATE time to fill <u>5</u> gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
8:00	42 ft	6 Sec		10 GPM
			Test Started	
8:15	55 ft	10 Sec		6 GPM
8:30	55 ft	10 Sec		6 GPM
8:45	55 ft	10 Sec		6 GPM
9:00	55 ft	10 "		6 "
9:15	55 ft	10 "		6 "
9:30	55 ft	10 "		6 "
9:45	55 ft	10 Sec		6 GPM
10:00	55 ft	10 Sec		6 GPM
10:15	55 ft	10 Sec		6 GPM
10:30	55 ft	10 "		6 "
10:45	55 ft	10 "		6 "
11:00	55 ft	10 Sec		6 GPM
11:15	55 ft	10 Sec		6 GPM

**HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WATER AND SEWERAGE PROGRAM
TEL: (410)313-2640 FAX: (410)313-2643**

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: Fogles Well Drilling, LLC Telephone #: 443-609-4195
Address: P.O. Box 202
Woodbine md 21797

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): Allen Compton License# M5D009

*A licensed individual must perform the actual installation. Apprentices must be under the direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.

Name of Property Owner: Ryan Hoopes Telephone #: 410-746-0780
Subdivision: Message Farms Lot #: 10 Well Tag #: HO-95-0026
Site Address: 1433B Message Farm Ct
Greenig md

<u>Submersible Pump Data</u>	<u>Pitless Adapter</u>	<u>Well Cap and Electric Conduit</u>
Make: <u>Grundfos</u>	Make: <u>Campbell</u>	Two piece watertight cap: <u>yes</u>
Model #: <u>1552A07-180</u>	Model#: <u>N/A</u>	Screened, vented well cap: <u>yes</u>
Pump Capacity <u>15</u> GPM	Depth: <u>36</u> (36" min)	Cap secured to casing: <u>yes</u>
Well Yield: <u>6</u> GPM	NSF approved: <u>yes</u>	Conduit min 18" B.G.: <u>yes</u>
Depth of well encountered at time of pump installation: <u>260</u> (feet)		Conduit secured to well cap: <u>yes</u>

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 173.4
Torque arrestors or Cable guards are required - Must circle one
Safety rope, if used, attached to inside of well casing with eye bolt N/A

<u>Piping to house</u>	<u>House Connection</u>
Type: <u>1" Black Plastic</u>	PVC sleeved to undisturbed soil at wall penetration: <u>yes</u>
PSI: <u>160</u> (160 psi min)	Approximate length of sleeve (5 foot minimum): <u>5'</u>
Depth of supply line: <u>43</u> (36" min)	Sleeve caulked and sealed properly: <u>yes</u>

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation:

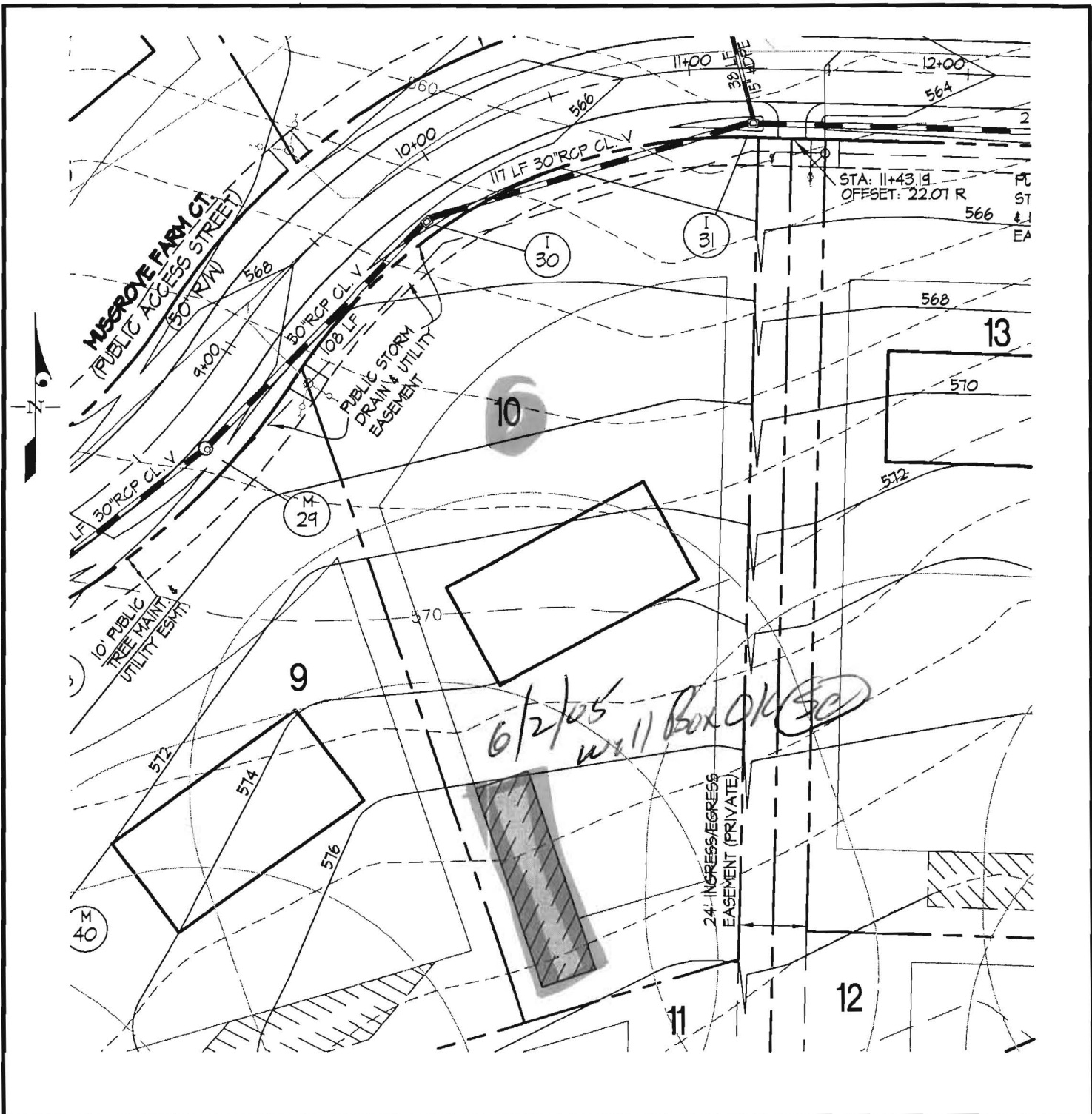
Signature of company representative responsible for installation: Allen Compton date: 5/24/10

For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: _____ Date Insp. Approved: 5/25/2010 KW

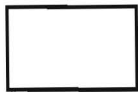
Inspection Data:

Pitless adapter and water supply line at least 36" below grade	<input checked="" type="checkbox"/>
Two piece cap installed and attached to casing securely	<input checked="" type="checkbox"/>
Elec. conduit extends at least 18" below grade/attached to cap properly	<input checked="" type="checkbox"/>
Safety rope installed inside of well casing	<input checked="" type="checkbox"/>
Correct well tag attached properly and casing 8" above finished grade	<input checked="" type="checkbox"/>
Water supply line sleeved adequately at house connection	<input checked="" type="checkbox"/>
Adequate grout observed below pitless adapter	<input checked="" type="checkbox"/>



6/2/05 well Box OK (SC)

LEGEND



CONCEPTUAL HOUSE BOX

4022
W-10



WELL SURVEY POINT

WELL BOX

WELL LOCATION EXHIBIT - LOT 10

MUSGROVE FARM

Lots 1 thru 30, Buildable Preservation Parcels 'A'
and Non-Buildable Preservation Parcels 'C' and 'D'

GLW GUTSCHICK LITTLE & WEBER, P.A.

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

SCALE: 1"=50'

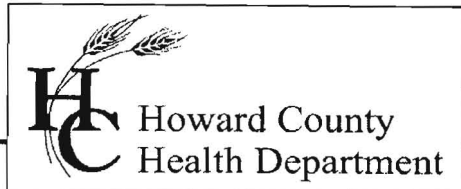
ZONING: RC/RR-DEO

TAX MAP/GRID: 22-12,22-1&7

GLW JOB NO: 01171

APR., 2005

1 OF 1



Bureau of Environmental Health
7178 Gateway Drive Columbia, MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Peter Beilenson, M.D., M.P.H., Health Officer

July 13, 2010

Homeowner
14338 Musgrove Farm Court
Glenwood, MD 21738

RE: Musgrove Farm, Lot 10
14338 Musgrove Farm Court
BP #: B09003096
Well Tag: HO-95-0026

Dear Sir:

This is to advise you that the septic system for the above referenced property has been installed and inspected. **Final approval of the septic system was granted on 7/13/2010. Final approval of the well line connection to the dwelling was approved on 5/25/2010.**

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking. The water sample results were found to be in compliance with COMAR water quality standards.

Enclosed with this certificate, is a copy of the septic permit and the as-built along with important information regarding the use and maintenance of your septic system. Please read through carefully and thoroughly. Any questions regarding your well and/or septic, please call this office for guidance 410-313-1771.

INTERIM CERTIFICATE OF POTABILITY

This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit #HO-95-0026. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies. Based upon satisfactory investigation and evaluation, the Howard County Health Department as authorized by the Maryland Department of the Environment accepts this well system as required by COMAR 26.04.04.

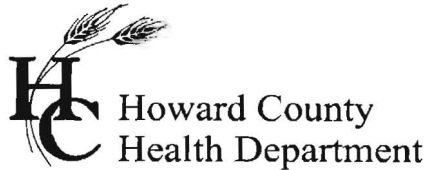
This certificate may become final upon completion of the second bacteriological test, which is to be taken by the county health department within six months of receipt of this letter. **Please contact (410) 313-1773 to schedule a final water sample appointment. Currently, there is no charge for this final sampling.**

Date of Water Samples: 07/08/2010
Date of Well Completion: 05/11/2006

Approving Authority,

Kevin M. Wolf,
Environmental Sanitarian
Well & Septic Program

cc: Building Inspector's Office
Community Health Services
File



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July 13, 2010

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Glenwood, MD 21738

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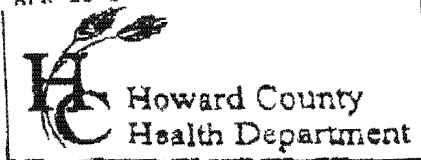
Date of Well Completion: 05/11/2006

Approving Authority,



Brian Baker, R.S.
Environmental Sanitarian
Well & Septic Program

cc: Building Inspector's Office
Community Health Services
File



3525 H Ellicott Mills Drive • Ellicott City, MD 21043
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

ATTENTION WELL DRILLERS!!!

MUSCENIS FARM

When submitting a well application for a new or replacement well, please indicate one of the following:

- The well site has been staked by Gutzwiller Little & Weber PA on 05/05/05 and is ready for site inspection.
- _____ will call the Health Department for a time to meet in the field to verify a well location.
- Site plan for new well is attached to well permit application.

Please attach this sheet when submitting your green application. This should help improve communication allowing a more timely service for our citizens.

KN

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1418 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 Fax (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #: 75950	Account #: 1930
Reference: Ryan Homes Lot 10	Company: Fogle's Well Drilling
Location: 14338 Musgrove Farm Court Glencol, MD 21737	Requested By: Dave Fogle
Date/ Time Collected: 7/8/2010 1500	Source: Well Water
Date/Time Rec'd: 7/8/2010 1605	Site: Utility Sink
Chlorine ppm: Free: ND Total: ND	Treatment: Reverse Osmosis**
Collected By: C. Mooshian 7268CM	pH: 5.6
	Well #: HO-95-0026

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	7/9/2010 / 1030 / KME
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	7/9/2010 / 1030 / KME
Nitrate	12.0	mg/L	10	601	7/9/2010 / 0930 / CCH
Turbidity	0.54	NTU	<10	SM18 2130B	7/9/2010 / 0830 / KME
Sand	NS	mg/L	5	Visual/Gravimetric	7/9/2010 / 0825 / KME

NOTES

- 1 **Reverse Osmosis not in service at time of sampling.
- 2 mg/L = milligrams per liter (also, parts per million)
- 3 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 4 NS = None Seen (NS indicates less than 5 mg/L)
- 5 NTU = Nephelometric Turbidity Units
- 6 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 7 ND:None Detected
- 8 Visual well check: Sealed, vented cap
- 9 pH and Chlorine level tested on site

Reason for Test : Use & Occupancy
 Building Permit # : B09-003096

Date Reported: 7/9/2010

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.
 1415 Old Paltown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

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Laboratory ID #:	75973	Account #:	1930
Reference:	Ryan Homes Lot 10	Company:	Fogle's Well Drilling
Location:	14338 Musgrove Farm Court Glenelg, MD 21737	Requested By:	Dave Fogle
Date/ Time Collected:	7/12/2010 0948	Source:	Well Water
Date/Time Rec'd:	7/12/2010 1132	Site:	R/O Tap
Chlorine ppm:	Free: ND Total: ND	Treatment:	Reverse Osmosis
Collected By:	J.Yeager 6176JY	pH:	6.8
		Well #:	HO-95-0026

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Nitrate	<1.0	mg/L	10	601	7/12/2010 / 1345 / CCH

NOTES

- 1 mg/L = milligrams per liter (also, parts per million)
- 2 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 3 ND:None Detected
- 4 Visual well check: Sealed, vented cap
- 5 pH tested on-site

Reason for Test : Use & Occupancy
 Building Permit # : B09-003096

Date Reported: 7/12/2010

MD State Certification # 133